



IEEE

Ottawa Section



Seminar by IEEE Ottawa PES and RS Chapters, Ottawa Educational Activities, and EPMG of INMS/NRC

The IEEE Ottawa Section is inviting all interested IEEE members and nonmembers to a seminar on

Renewable and Sustainable Energy

By

Alan Rotz, IEEE Power & Energy Society President

DATE: Thursday, September 16, 2010.

TIME: Refreshments, Registration and Networking: 09:45 a.m.; Seminar: 10:00 a.m. – 11:00 a.m.

PLACE: National Research Council, 1200 Montreal Road, Ottawa, [Building M-50, Auditorium](#).

PARKING: No fee at the visitor's parking. Please respect restricted areas.

Abstract

What are the challenges of sustainable energy? To answer that question one must first answer the question, "What is sustainable energy?" Is only "green energy sustainable energy"? The second question one must answer is "How long does an energy supply have to last to be considered "sustainable". This talk will review the sources of energy in North America, as well as their end uses. Following that, potential energy sources, both traditional (hydro, coal, natural gas, nuclear, etc) as well as non-traditional (wind, solar, hydrogen, etc.) will be discussed. The advantages of each energy source will be outlined, as well as the engineering challenges that must be overcome to make each energy source sustainable.

Alan (Al) C. Rotz's Bio



Alan Rotz graduated from Lehigh University in 1970 with BS degree in Electrical Engineering. In 2001 he completed his MS degree in Engineering Management from Drexel University. He has been a registered Professional Engineer in the state of Pennsylvania in the USA since 1976.

Al retired from PPL Electric Utilities in April 2010 after 40 years of service. He spent 17 years in the Transmission and Distribution Planning Departments, including 8 years as a Supervising Engineer. He then spent three years as a Supervising Engineer in the Distribution Operations and Maintenance Department. His management assignments over the past 20 years have included Field Engineering and Construction, Substation Engineering, Distribution Engineering, and his most recent role as Manager of Attachment & Telecom Business Services. From 1995 to 2001 Al was a member of the Edison Electric Institute's Transmission & Substation Committee, and served that group in roles as 2nd and 1st Vice Chair.

Al was a member of the IEEE Power & Energy Society (PES) Substation Committee from 1995-2001, where his major contributions were made as part of the Environmental Subcommittees. He was an active participant on Working Groups that affirmed or re-wrote IEEE Guides on Animal Deterrents (1264), Containment and Control of Oil Spills in Substations (980) and Substation Security (980). He also served as Vice Chair of the Environmental Subcommittee during those years. Al was elected as Treasurer of IEEE PES in 2004 and again in 2006. He was elected as PES President-Elect in 2008 and in that position also served as Chair of the PES Long-Range Planning Committee. He became the PES President in January 2010 and will serve through 2011. He is currently serving on the IEEE TAB PSPB Products and Services Committee and the IEEE TAB Ethics and Conflict Resolution Committee.

Admission:

Free. Registration required for security reasons.

Please register by e-mail contacting: branislav@ieee.org or almuhtadi@ieee.org